

PATENT ABSTRACTS OF JAPAN

(11) Publication number : 59-145610
 (43) Date of publication of application : 21.08.1984

(51) Int. CI. B60C 17/04
 // B60C 15/02

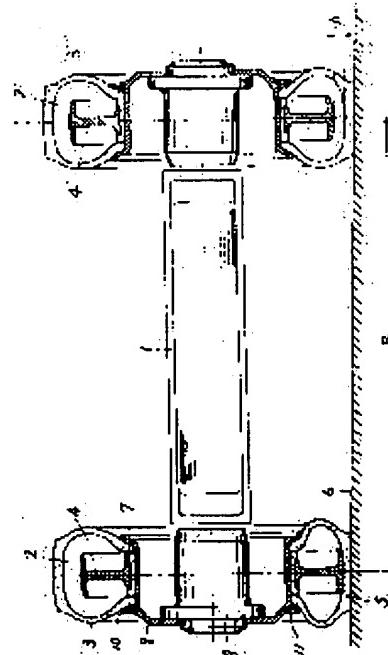
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(54) TIRE WHEEL CONTAINING GAS WITH BUILT-IN AUXILIARY WHEEL PROTECTING TIRES TREAD

(57) Abstract:

PURPOSE: To uniform a grounding face pressure of a tire tread by forming an external shape of an auxiliary wheel, which operates at the time of lowering of internal pressure of a tire and restricts its flection, as a cone with a slope corresponding to a slant of an axle when the auxiliary wheel of one side is operated and further crowning said wheel.

CONSTITUTION: Wheels 2, 2' are respectively composed of tires 3, 3' containing gas and fitted on both ends of an axle 1, and their built-in metallic auxiliary wheels 4, 4'. In this case, if, for example, internal pressure of the tire 3 for the wheel 2 is lowered and the auxiliary wheel 4 comes in contact with the interior of the tire 3 due to its flection, and a tire tread 5 is held between a traveling road surface 6 and the outer periphery of the auxiliary wheel 4, a difference is made between both ends of the axle 1 in the height by a gap A between the outer periphery of the auxiliary wheel 4 of a normal tire and the interior of the tire 3, and the slant angle of the axle 1 is a value obtained through dividing the gap A by an interval B between wheels. Thus, the external shape of the auxiliary wheel 4 is based on a cone with a slope corresponding to a slant of the axle 1 and further crowned correspondingly to a section of the tire tread 5.



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[Date of request for examination]
 [Date of sending the examiner's decision of rejection]
 [Kind of final disposal of application other than the examiner's decision of

rejection or application converted
registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's
decision of rejection]

[Date of requesting appeal against
examiner's decision of rejection]

[Date of extinction of right]

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